



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Logistics engineering

Course

Field of study

Logistics

Area of study (specialization)

Level of study

First-cycle studies

Form of study

part-time

Year/Semester

2/4

Profile of study

general academic

Course offered in

Polish

Requirements

elective

Number of hours

Lecture

12

Tutorials

Laboratory classes

Projects/seminars

12

Other (e.g. online)

Number of credit points

5

Lecturers

Responsible for the course/lecturer:

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ul. J. Rychlewskiego 2, 60-965 Poznań

Responsible for the course/lecturer:

Prerequisites



The student starting this subject should have a basic knowledge of logistics. He should also be able to obtain information from specified sources and be willing to cooperate as part of a team.

Course objective

Mastering the student's knowledge, skills and social competences related to the applications of logistics engineering

Course-related learning outcomes

Knowledge

- knows the basic concepts of logistics and its specific issues and supply chain management

[P6S_WG_05]

- know the basic issues of the life cycle of socio-technical systems (logistics systems) and the life cycle of industrial products [P6S_WG_06]

- knows the basic management issues specific to logistics and supply chain management [P6S_WG_08]

Skills

- is able to apply the right experimental and measuring techniques to solve the problem within the studied subject, including computer simulation in logistics and its specific issues, and supply chain management [P6S_UW_03]

- is able to prepare the means of work necessary to work in an industrial environment and knows the safety principles associated with this work, including safety problems in logistics [P6S_UW_05]

- is able to assess and make a critical economic analysis of the selected problem, which falls within the framework of logistics and its specific issues, and supply chain management [P6S_UW_06]

- can design an object, system or process that meets the requirements of logistics and its specific issues and supply chain management using appropriate methods and techniques [P6S_UW_07]

- can present, using properly selected means, a problem that falls within logistics and its specific issues, and supply chain management [P6S_UK_01]

Social competences

- is aware of the recognition of the importance of knowledge in the field of logistics and supply chain management in solving cognitive and practical problems [P6S_KK_02]

- is aware of initiating activities related to the formulation and transfer of information and cooperation in society in the field of logistics [P6S_KO_02]

- is aware of the responsible fulfillment, correct identification and resolution of dilemmas related to the logistics profession [P6S_KR_02]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

assessment based on a team-developed project,



grade based on written credit (exam)

Programme content

Logistic systems. Logistic processes. Logistic system and logistics process as a design object. Logistics development phases. The place of logistics engineering in logistics development. Methodical foundations of logistics engineering. Planning in logistics. Exchange of information in logistics systems

Teaching methods

1. Lecture: multimedia presentation, illustrated with examples on the board. 2. Projects: multimedia presentation illustrated with examples given on the board and performance of tasks given by the teacher.

Bibliography

Basic

Blanchard B., Logistics engineering and management, Prentice – Hall, Inc., Englewood Cliffs, New Jersey 1992

Fertsch M. (red)., Elementy inżynierii logistycznej, Wydawnictwo ILiM, Poznań, 2017

Additional

Pfohl H.- Ch., Systemy logistyczne. Podstawy organizacji i zarządzania. Wydawnictwo ILiM, Poznań, 2002.

Don Taylor G., Introduction to logistics Engineering, CRC Press, Taylor& Francis Group, Boca Raton, London, New York, 2009..

Breakdown of average student's workload

	Hours	ECTS
Total workload	125	5,0
Classes requiring direct contact with the teacher	25	1,0
Student's own work (literature studies, preparation for exam, project preparation) ¹	100	4,0

¹ delete or add other activities as appropriate